

Claims

- [c1] 1. A selectable booting operation method by a Basic Input Output System (BIOS) with a multi-partition in a disk which comprising a plurality of partitions, comprising:
turning on a power of a computer;
initializing a plurality of hardware components in the computer;
executing an interrupt service program;
reading a Master Boot Record (MBR) in the disk;
setting a multi-partition boot selection flag;
selecting one of the partitions by using the multi-partition boot selection flag;
determining whether the one of the partitions is bootable or not; and
reading a boot sector in the one of the partitions to boot the computer if the one of the partitions is determined bootable,.
- [c2] 2. The selectable booting operation method by the BIOS with the multi-partition in the disk of claim 1, wherein selecting the multi-partition boot selection flag is performed by an embedded controller in the computer.
- [c3] 3. The selectable booting operation method by the BIOS

with the multi-partition in the disk of claim 1, wherein selecting the multi-partition boot selection flag is performed by a keyboard controller in the computer.

[c4] 4. The selectable booting operation method by the BIOS with the multi-partition in the disk of claim 1, wherein selecting the multi-partition boot selection flag is performed by a remote controller.

[c5] 5. The selectable booting operation method by the BIOS with the multi-partition in the disk of claim 1, wherein setting the multi-partition boot selection flag is performed by an embedded controller in the computer.

[c6] 6. The selectable booting operation method by the BIOS with the multi-partition in the disk of claim 1, wherein setting the multi-partition boot selection flag is performed by a keyboard controller in the computer.

[c7] 7. The selectable booting operation method by the BIOS with the multi-partition in the disk of claim 1, wherein setting the multi-partition boot selection flag is performed by a remote controller.

[c8] 8. The selectable booting operation method by the BIOS with the multi-partition in the disk of claim 1, wherein the multi-partition boot selection flag is stored in a memory in the computer.

- [c9] 9. The selectable booting operation method by the BIOS with the multi-partition in the disk of claim 1, wherein the multi-partition boot selection flag is stored in a register in the computer.
- [c10] 10. The selectable booting operation method by the BIOS with the multi-partition in the disk of claim 1, wherein when the one of the partitions is not bootable, a boot fail message is displayed.
- [c11] 11. The selectable booting operation method by the BIOS with the multi-partition in the disk of claim 1, wherein when the one of the partitions is not bootable, a default partition in the disk set by the BIOS is read.
- [c12] 12. The selectable booting operation method by the BIOS with the multi-partition in the disk of claim 11, wherein when the default partition is bootable, a boot sector in the default partition is read so as to boot the computer.
- [c13] 13. The selectable booting operation method by the BIOS with the multi-partition in the disk of claim 11, wherein when the default partition is not bootable, a boot fail message is displayed.
- [c14] 14. The selectable booting operation method by the BIOS with the multi-partition in the disk of claim 1, wherein

the interrupt service program is an INT 19H interrupt service program.